

Message Text

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TAGS: PORG, EAIR, ICAO

SUBJ: ICAO: FIRST REPORT US DEL AWOP-VI CONFERENCE, 3 MARCH

1. MEETING COMMENCED WITH AUSTRALIAN MEMBER DISCUSSING WORK DONE ON MLS SHADOWING. AFTER LENGTHY DISCUSSION IT BECAME EVIDENT THAT SMALL ADVANTAGE CLAIMED FOR DOPPLER SYSTEM DID NOT EXIST. PANEL ACCEPTED THIS. IFALPA PANEL MEMBER INQUIRED IF THIS CONDITION OF CLOSE IN SIGNAL BLOCKAGE APPLIED TO DLS. RESPONSE - DLS ALSO HAS RESTRICTIONS AND PANEL NOTED THAT SOME ATC PROCEDURAL AND CRITICAL AREA RESTRICTIONS WOULD APPLY TO MLS SYSTEMS. PANEL THEN TURNED TO MULTIPATH QUESTIONS AND PROCESSING TECHNIQUES WORKING PAPERS ON LEADING EDGE PROCESSOR BY U.S. MEMBER SHOWED ADVANTAGES OF TECHNIQUE. THIS WAS CHALLENGED BY DOPPLER PROPONENTS. THE DISCUSSION TURNED TO U.K. THREE FREQUENCY CORRELATOR WHICH ONLY BRIEFLY DESCRIBED IN U.K. PROPOSAL. IT WAS NOTED BY CHAIRMAN THAT HE WAS UNAWARE OF TECHNICAL MATURITY OF THIS PROCESSING TECHNIQUE. SEVERAL PANEL MEMBERS QUESTIONED UMK. MEMBER, IT BECAME APPARENT DATA WAS LACKING AND U.K. ADVISOR INDICATED THAT SOME DMLS DATA HAD NOT BEEN PUBLISHED AND INDEED EVEN SOME PARAMETRIC CHOICES ON PROCESSOR HAD NOT BEEN MADE. INFORMATION WOULD BE MADE AVAILABLE TO THE PANEL. US MEMBER MADE POINT THAT AGAIN WE ARE LEARNING OF NEW DESIGNS WHICH HAVE NOT BEEN FIXED. IN DISCUSSION OF DMLS CORRELATOR PROCESSOR, US MEMBER MADE STRONG POINT THAT DMLS WAS MAKING

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CLAIMS WITHOUT SUBSTANTIATION AND SUGGESTED THAT THESE ALL BE DISREGARDED OR INCLUDED IN SEPARATE SECTION OF REPORT. UK MEMBER QUESTIONED US SINGLE EDGE PROCESSOR (SEP). US MEMBER INDICATED IT HAD BEEN TESTED AND FLOWN IN TRIALS. PANEL ASKED COULD LINCOLN LAB, IF UK PROVIDED ALGORITHMS, CONDUCT SIMULATION BEFORE CLOSE OF MTG ON SYSTEM. LINCOLN LAB WOULD TRY. PANEL MEMBER (US) POINTED OUT THAT DMLS NEEDS LATERAL DIVERSITY ANTENNA

IN COMBINATION WITH ASYMMETRICAL PROCESSOR, IF ANY BENEFIT TO BE GAINED FROM FORMER. IN CONSIDERING US PROPOSED CONCLUSIONS RELATED TO MULTIPATH, CHAIR REQUESTS ADDED INFORMATION AND THAT SIMULATION BE DONE ON SIGNIFICANCE OF LATERAL DIVERSITY. LINCOLN WILL UNDERTAKE FROM MONTREAL. THIS POINT IN OUR FAVOR AS IT REOPENS ISSUE FORECLOSED YESTERDAY WHERE LATERAL DIVERSITY WAS DECLARED AN ASSET TO DMLS BY VOTING. PANEL DISCUSSED QUESTION OF CROSS MODULATION PRODUCTS WHERE PROBLEM APPEARS TO EXIST FOR DOPPLER ANGLE AND REFERENCE SIGNALS. USSR MEMBER PRESENTED STRONG ARGUMENT THAT TRSB IS SUPERIOR IN THAT TO MINIMIZE MULTIPATH EFFECTS DMLS REQUIRED ADDITIONAL COSTLY PROCESSING CAPABILITY IN AIRBORNE SYSTEMS. UK INDICATED THIS WAS NOT PROBLEM. IT WAS AGREED MULTIPATH SUBGROUP WOULD ADDRESS QUESTION. THERE WAS TENDENCY FOR PANEL TO WANT TO REDO WHAT PERFORMANCE SUBGROUP OF WG-A HAD ACCOMPLISHED. AUSTRALIAN AND US MEMBER SUPPORTED PERFORMANCE SUBGROUP WORK. TEST RESULTS OF US SEP PROCESSOR IN CERTAIN MULTIPATH SITUATIONS WERE REQUESTED BY UK MEMBER. OVERALL ASSESSMENT OF DAYS WORK WOULD INDICATE GOOD TECHNICAL POINTS MADE FOR TRSB CASE.
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